PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2001-312509
(43)Date of publication of application : 09.11.2001

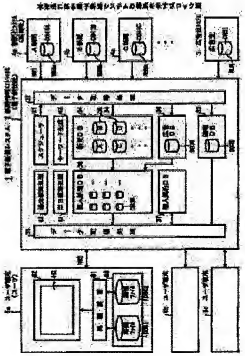
(51)Int.Cl. G06F 17/30
G06F 13/00
G06F 17/60

(21)Application number : 2000-129170
(22)Date of filing : 28.04.2000

(71)Applicant : FUJITSU LTD
(72)Inventor : NAKADA KAZUO
OBARA FUJIO
OTSUBO SHIRO

(54) SYSTEM AND RECORDING MEDIUM FOR DISTRIBUTING ELECTRONIC DATA

(57)Abstract:
PROBLEM TO BE SOLVED: To provide a system that enables subscribers to receive only a required data, and to see and read easily the received data and that can reduce the data transmission amount and the storage capacity.
SOLUTION: The system is an electronic information transmission system distributing news published by a plurality of newspaper companies to a plurality of subscribers, and has a news database 34 that stores the news published, a subscriber database 37 that stores data to select required news for each subscriber, an editing processor 41 that searches for the required news stored in the news database 34 based upon a selection criterion and edits them, an individual news database 38 that stores the edited news for each subscriber, and a data transmission processor 33 that transmits the news stored in the individual news database 38.



* NOTICES *

JPO and INPIT are not responsible for any damages caused by the use of this translation.

1.This document has been translated by computer. So the translation may not reflect the original precisely.
2.**** shows the word which can not be translated.
3.In the drawings, any words are not translated.

CLAIMS

[Claim(s)]
[Claim 1]An electronic intelligence distribution system characterized by comprising the following for distributing electronic intelligence to two or more users.
An information database in which electronic intelligence acquired is stored.
A selection information storing means which stores selection information for choosing required information out of electronic intelligence about each user.
An editing means which retrieves and edits required information about each user using said selection information out of information stored in said information database.
A user compilation information storing means which stores edited information for every user, and a transmitting means which transmits information stored in said user compilation information storing means to each user via a network.

[Claim 2]A keyword which a means to give a keyword to electronic intelligence stored in said information database was formed, and a user chose as said selection information is contained, and said editing means, The electronic intelligence distribution system according to claim 1 into which required information is retrieved and edited out of information stored in said information database based on a keyword contained in said selection information.
[Claim 3]An electronic intelligence distribution system characterized by comprising the following for distributing information from newspapers published from two or more newspaper publishing companies to two or more users.
A newspaper database in which published information from newspapers is stored.
A selection information storing means which stores selection information for choosing required information from newspapers out of information from newspapers about each user.
An editing means which searches and edits required information from newspapers about each user using said selection information out of information from newspapers stored in said

newspaper database.
A user compilation information storing means which stores edited information from newspapers for every user, and a transmitting means which transmits information from newspapers stored in said user compilation information storing means to each user via a network.

[Claim 4]The electronic intelligence distribution system according to claim 3 which space information for choosing newspaper publishing company information for choosing a newspaper publishing company and newspaper space as said selection information is included, and is constituted so that information from newspapers which needs said editing means may be edited for said every space information.
[Claim 5]A keyword which a means to give a keyword to information from newspapers stored in said newspaper database was formed, and a user chose as said selection information is contained, and said editing means, While searching required information from newspapers out of information from newspapers stored in said newspaper database based on a keyword contained in said selection information, The electronic intelligence distribution system according to claim 4 into which searched information from newspapers is edited as clipping information other than each space information edited for said every space information.
[Claim 6]From a newspaper publishing company, it is formed by news flash database in which news flash information published is stored, and about said information from newspapers. The electronic intelligence distribution system according to any one of claims 3 to 5 which transmits to a user in a time zone beforehand provided in 2 times of every morning and evening on the day, and transmits to a user immediately about newly published news flash information.
[Claim 7]From two or more newspaper publishing companies, are information from newspapers published an electronic intelligence distribution system for distributing to two or more users, and An information-from-newspapers host system, Have two or more user terminals which were connected to said information-from-newspapers host system via a network, and were installed under each user, and said information-from-newspapers host system, A newspaper database in which published information from newspapers is stored, and a selection information storing means which stores selection information for choosing required information from newspapers out of information from newspapers about each user, An editing means which searches and edits required information from newspapers about each user using said selection information out of information from newspapers stored in said newspaper database, A user compilation information storing means which stores edited information from newspapers for every user, Have a transmitting means which transmits information from newspapers stored in said user compilation information storing means to each user terminal via a network, and said user terminal, An electronic intelligence distribution system which has

memory storage which stores information from newspapers received from said information-from-newspapers host system, and a display which displays information from newspapers stored in said memory storage, and is characterized by things.

[Claim 8]The electronic intelligence distribution system according to claim 7 with which that is displayed on said display when said information from newspapers is displayed on a display of said user terminal for every space and news flash information is newly received.

[Claim 9]Processing which stores information from newspapers published from a newspaper publishing company by being the recording medium with which a program for realizing an electronic intelligence distribution system for distributing information from newspapers published to two or more users was stored in a newspaper database, Processing which stores selection information for choosing required information from newspapers out of information from newspapers in a selection information storing means about each user, Processing which searches and edits required information from newspapers about each user using said selection information out of information from newspapers stored in said newspaper database, Processing which stores edited information from newspapers in a user compilation information storing means for every user, A recording medium which recorded a program for making a computer perform processing which transmits information from newspapers stored in said user compilation information storing means to each user via a network and in which computer reading is possible.

[Translation done.]

* NOTICES *

JPO and INPIT are not responsible for any damages caused by the use of this translation.

1.This document has been translated by computer. So the translation may not reflect the original precisely.
2.**** shows the word which can not be translated.
3.In the drawings, any words are not translated.

DETAILED DESCRIPTION

[Detailed Description of the Invention]
[0001]
[Field of the Invention]This invention relates to the electronic intelligence distribution system for distributing the information from newspapers especially published from two or more newspaper publishing companies to two or more users about an electronic intelligence distribution system and a recording medium.
[0002]
[Description of the Prior Art]Conventionally, a newspaper is delivered by each user (subscriber) in the time zone when every morning and evening was decided. There are the 1st page, the general news page, the financial page, etc. in a newspaper, and it finds out into a big headline, respectively, and is edited using the subtitle etc. The user can read a newspaper by the detail doubled with the convenience of its time.
[0003]Now, a newspaper is electronized and the system distributed to a user via a network is proposed (JP,H8-256174,A). In this conventional system, the information from newspapers by which composition processing was carried out is changed into the electronic newspaper information of a format suitable for electronic transmission and an inspection, and is distributed to a user via a communications satellite, a broadcasting satellite, terrestrial broadcasting, or CATV. In a user, the received electronic newspaper information is first displayed on a display surface with low magnification. If there is a report to wish, it will be made to display with high magnification. With an input device, an electronic newspaper can be ****(ed) with the feeling same with ****(ing) a paper newspaper by operating a page substitute, scrolling, zoom, or a clipping.
[0004]
[Problem(s) to be Solved by the Invention]In the conventional electronic-newspaper-information system described above, after changing the signal into electronic newspaper

information paying attention to the information from newspapers by which composition processing was carried out being an electrical signal, it transmits to each user using various transmission media.

[0005]However, according to it, each user of what can **** information from newspapers with user-friendliness with the user near a paper newspaper needs to choose required information or information to read from all the received information from newspapers.

[0006]Since the area of the display surface of a display is restricted, even if it is a case where the method of presentation is devised how, compared with the case where a paper newspaper is opened, the list nature is usually inferior. Therefore, it is not easy to choose information required out of information from newspapers similar to a newspaper side on a display surface.

[0007]Although the user can acquire all the information from newspapers and required information can be chosen by spending many hours from the inside, Since the information which is not required will also be received, there is also a problem that the data volume memorized in the terminal unit of the data volume transmitted and a user increases superfluously.

[0008]This invention was made in view of the above-mentioned problem, and only the information which a user needs can be received, It is easy to **** the information received in the user, and it aims at providing the electronic intelligence distribution system and recording medium which can reduce the transmission quantity and the storage capacity of data.

[0009]

[Means for Solving the Problem]An information database in which a system concerning an invention of Claim 1 stores electronic intelligence acquired, A selection information storing means which stores selection information for choosing required information out of electronic intelligence about each user, An editing means which retrieves and edits required information about each user using said selection information out of information stored in said information database, It has a user compilation information storing means which stores edited information for every user, and a transmitting means which transmits information stored in said user compilation information storing means to each user via a network, and is constituted.

[0010]A keyword which a means to give a keyword to electronic intelligence stored in an information database was formed if needed, and a user chose as said selection information is contained. An editing means retrieves and edits required information out of information stored in said information database based on a keyword contained in said selection information.

[0011]When an electronic intelligence distribution system is applied to an electronic newspaper, information from newspapers is used as electronic intelligence. In that case, an editing means is constituted so that information from newspapers may be edited for every space information. When it searches based on a keyword, searched information from newspapers is edited as clipping information other than each space information. A news flash

database in which news flash information published from a newspaper publishing company is stored is formed, and it transmits to a user in a time zone beforehand provided in 2 times of every morning and evening on the day about information from newspapers, and transmits to a user immediately about newly published news flash information.

[0012]A user terminal is provided with the following.

Memory storage which stores information from newspapers received from an information-from-newspapers host system.

A display which displays information from newspapers stored in memory storage.

When information from newspapers is displayed on a display of a user terminal for every space and news flash information is newly received, that is displayed on a display.

[0013]An electronic intelligence distribution system concerning this invention is realized using various computers or devices of a personal computer, a workstation, a general purpose computer, mobile computing devices, and others, for example. A program for realizing an electronic intelligence distribution system concerning this invention is stored in recording media, such as semiconductor memory, a hard disk, CD-ROM, a floppy (registered trademark) disk, or a magneto-optical disc. Loading of the program stored in a recording medium is carried out timely on main memory, and it is executed by a processing unit. In that case, drive devices, such as a CD-ROM drive, a floppy disk drive, or a Magnetic-Optical disk drive, are used if needed. When a recording medium is formed in a server connected with communication lines, such as a network, via a communication line, a program is read in a server or it downloads. A program can be supplied so that it may operate under various OS's, a platform, system environment, or a network environment.

[0014]

[Embodiment of the Invention]The example which applied the electronic intelligence distribution system to the electronic newspaper system below is explained.

[0015]Drawing 1 is a block diagram showing the composition of the electronic newspaper system 1 concerning this invention. The electronic newspaper system 1 consists of the information-from-newspapers host system 3, the press systems 4a and 4b, 4c--, the advertising company system 5, the user terminals 6a and 6b, 6c-- and network NW1 that connects them, NW2, etc. in drawing 1.

[0016]The whole or part may be pointed out, respectively and the press systems 4a and 4b, 4c-- and the user terminals 6a and 6b, and 6c-- may be indicated to be the "press system 4" or the "user terminal 6." The same may be said of others. Two or more advertising company systems 5 may also be formed. The information-from-newspapers host system 3 may also be distributed and formed in two or more parts.

[0017]The information-from-newspapers host system 3 is installed in the building founded, for example as an electronic newspaper company. The information-from-newspapers host system

3, On the scheduler 31, the data acquisition processing part 32, the data distribution treating part 33, the newspaper data storage parts store 34, the news flash data storage part 35, the advertisement data storage parts store 36, the individual contract data storage part 37, the individual newspaper data storage parts store 38, and the day The editing processing part 41, the past editing processing part 42, And it consists of the keyword generation part 43 etc.

[0018]Newspaper database DB34 to the news flash data storage part 35 at the newspaper data storage parts store 34 news flash database DB35, Individual contract data base DB37 is provided in the individual contract data storage part 37, and individual newspaper database DB38 is provided for advertisement database DB36 in the individual newspaper data storage parts store 38 at the advertisement data storage parts store 36, respectively.

[0019]The data acquisition processing part 32 communicates between the press system 4 and the advertising company system 5, and acquires required information-from-newspapers SBS, the news flash information SHS, and the advertisement data KUK. In that case, according to the timing directions from the scheduler 31, a subsequent data demand is transmitted to the paper company system 4, and information-from-newspapers SBS is received from the paper company system 4. However, when transmitting preparation of information-from-newspapers SBS is completed in the press system 4, without being based on the timing directions from the scheduler 31, it may be made to transmit from the press system 4.

[0020]The news flash information SHS is transmitted from information-from-newspapers SBS, when the news flash information SHS arises in the press system 4. However, it asks from the information-from-newspapers host system 3 with a predetermined cycle to the press system 4, and when there is the new news flash information SHS, it may be made to transmit it for example.

[0021]The data distribution treating part 33 communicates between the information-from-newspapers host system 3 and the user terminal 6, and transmits the individual information from newspapers KSB to each user terminal 6. In that case, a seizing signal is transmitted to the user terminal 6, for example according to the timing directions from the scheduler 31. The user terminal 6 starts the application for reception, etc., and makes the preparations for reception. If the receiving preparation of the user terminal 6 is completed, a transmission notice will be taken out from the information-from-newspapers host system 3 to the user terminal 6, and if a ready-for-receiving ability signal comes on the contrary from the user terminal 6, the individual information from newspapers KSB will be transmitted. To the user terminal 6 which was not able to transmit the individual information from newspapers KSB, a download request is performed from the user terminal 6 to the information-from-newspapers host system 3 after that, and the individual information from newspapers KSB is transmitted from the information-from-newspapers host system 3 corresponding to this.

[0022]After always performing a download request from each user terminal 6 to the

information-from-newspapers host system 3, it may be made to transmit the individual information from newspapers KSB. What is necessary is to perform a download request from mobile computing devices, and just to enter a password etc., when a user acquires the individual information from newspapers KSB from outside using mobile computing devices etc.

[0023]When receiving the individual information from newspapers KSB in mobile computing devices, Information is divided into the size which can be displayed by mobile computing devices, and it may be made to download, and may be made for the article information corresponding to the title which only title information downloaded previously and the user chose to download each time.

[0024]The data of individual contract data D371-3 transmitted to the information-from-newspapers host system 3 from the user terminal 6 and others, instructions, etc. are received, and the data distribution treating part 33 can be memorized or changed for required processing.

[0025]Newspaper publishing company database DB41A, B, and C-- are provided in the paper company system 4, and the information from newspapers SBSa and SBSb which A newspaper publishing company, B newspaper publishing company, and C newspaper publishing company -- etc. created, and SBSc-- are stored in it, respectively.

[0026]The advertising company system 5 is equipped with advertising company database DB51 which memorized much advertisement data KUK of the company which provides an advertisement, or the individual. The user terminal 6 is equipped with the processing unit 61, the display 62, the memory storage 63, etc. Newspaper file DB61, news flash file DB62, etc. are stored in the memory storage 63.

[0027]A personal computer, a dedicated terminal, or the terminal unit of combination can be used for the user terminal 6, for example. It is also possible to use various mobile computing devices including a portable telephone.

[0028]As network NW1, a dedicated line or a public line is used, for example. As network NW2, a public line, a dedicated line, a CATV network, or the Internet is used. The thing [using a part for all] is also possible for any case in the wireless circuit using the wire circuit by wire or an optical fiber, an electric wave, infrared rays, etc.

[0029]The figure in which drawing 2 shows newspaper publishing company database DB41, the figure in which drawing 3 shows newspaper database DB34, The figure in which the figure, drawing 5, or drawing 7 which drawing 4 shows news flash database DB35 shows some of data D371 stored in individual contract data base DB37 - contents of three, respectively, The figure in which drawing 8 shows individual newspaper database DB38, the figure in which drawing 9 shows the example of newspaper screen HG1 displayed on the display surface of the display 62, The figure showing the example of news flash window HG2 as which drawing

10 is displayed when news flash information is transmitted to the user terminal 6, and drawing 11 are the figures showing the example of newspaper subscription application screen HG3 displayed on the display surface of the display 62.

[0030]As shown in drawing 2, information-from-newspapers SBS stored in newspaper publishing company database DB41 is summarized for every space SMN like 1st page SMN1, general news page SMN2, and financial page SMN3. As the space (or column) SMN, there are a political front, a comprehensive field, an international aspect, a sports page, a program side, an editorial page, readers' other voice sides, etc.

[0031]A big headline and a picture like a subtitle, the text and a photograph, or an illustration which acts as Izuru Nakami are summarized in each space SMN about each report KJD like the report 1, the report 2, and report 3 --. A sound etc. may be added to this.

[0032]Although the one report KJD, the one space SMN, or one information-from-newspapers SBS may be stored in one database or a file, it does not necessarily need to be physically stored in one storage. For example, only the address of the link destination is stored in the same file about a picture, and the contents of a picture may exist on other storages specified in the address. The same may be said of others.

[0033]Information-from-newspapers SBS is created according to the morning paper and evening paper of a day in which a newspaper is published. Information-from-newspapers SBS stored newspaper publishing company database DB41 is transmitted to the information-from-newspapers host system 3 in the time zone when every morning and evening was set beforehand.

[0034]At a paper company, although the graphic display was omitted, when news flash is published, the news flash information SHS which data-ized it is stored in newspaper publishing company database DB41, and is immediately transmitted to the information-from-newspapers host system 3 after that.

[0035]In drawing 3, the information from newspapers SBK of the paper company is stored in newspaper database DB34 of a paper company. The information from newspapers SBK consists of information-from-newspapers SBS sent from a newspaper publishing company, and the keyword KW about each of that report KJD.

[0036]Information-from-newspapers SBS is the same as what is transmitted from the paper company system 4. The keyword KW is generated by the keyword generation part 43 corresponding to the contents of each report KJD.

[0037]It is possible to use various methods as a generation method of the keyword KW. For example, what is necessary is just to choose the keyword KW from the words used for the text or the title of the report KJD. It may choose from the keywords KW registered beforehand.

[0038]In drawing 4, the news flash information SHS sent from the paper company is stored in news flash database DB35 as it is. The stored news flash information SHS is immediately

transmitted to the user who contracted in accordance with the contractual coverage memorized by the individual contract data storage part 37.

[0039]The individual contract data D371 consists of the membership number KIB, the contractor code KYC, the password PWD, newspaper contract code SKC about each paper, clipping contract code CKC, the distribution high limit setting HJS, the news flash reception necessity SUY, etc. in drawing 5.

[0040]The membership number KIB is a number uniquely given to the member who can receive the predetermined service including the newspaper subscription by the electronic newspaper system 1. The contractor code KYC is a code uniquely given to the member who applied for the newspaper subscription by the electronic newspaper system 1. The password PWD is given if needed to the member to whom the contractor code KYC was given.

[0041]A newspaper contract code, B newspaper contract code SKC, etc. are codes which show that it applied for subscription of A newspaper, B newspaper, etc., respectively. The clipping contract code CKC is a code which shows that it applied for the distribution service of the report searched by the keyword KW. When having applied for subscription of each paper, or distribution of the report by the keyword KW, the information which shows that it is the newspaper name or clipping contract the code which shows those each paper, for example was set to "1", or a contract of was made is registered.

[0042]The distribution high limit setting HJS is for setting up the upper limit of the data volume, when the information from newspapers SBK etc. are transmitted to the user terminal 6. The data exceeding the set-up upper limit is not transmitted. The news flash reception necessity SUY is a code which shows that it applied for subscription of the news flash information SHS.

[0043]In drawing 6, the individual contract data D372 sets up the detailed contents about the set-up newspaper contract code SKC in the individual contract data D371 shown in drawing 5. The individual contract data D372 consists of the contractor code KYC, the newspaper contract code SKC, space contract code TSM, etc.

[0044]Space contract code TSM is information which shows which space he wishes to the information from newspapers SBK of the newspaper publishing company concerned. That is, about the information from newspapers SBK, users are not the all, and can specify and make a contract of space like the 1st page, the general news page, and the financial side. A user specifies the space to wish. The specified space is registered as space contract code TSM.

[0045]In drawing 7, in the individual contract data D371 shown in drawing 5, the individual contract data D373 sets up the detailed contents, when the clipping contract code CKC is set up. The individual contract data D373 consists of the contractor code KYC, the clipping contract code CKC, the keyword TKW, etc.

[0046]As the keyword TKW, two or more words which a user wishes can be registered with the logic which applies them. In the example of drawing 7, a "new product", the "electrical and

electric equipment", a "household appliance", and a "stock price" are chosen as a word, and it is set up search the title and the text of each report KJD with the logic of a "new product" and ("electrical-and-electric-equipment" or a "household appliance"), or a "stock price", and extract the hit report KJD in it.

[0047]In drawing 8, the individual information from newspapers KSB stored in individual newspaper database DB38 edits the information from newspapers which was searched by the editing processing part 41 out of newspaper database DB34 on the day, and was extracted for every user along with the individual contract data D371 - 3.

[0048]As for the individual information from newspapers KSB, whenever edit is performed every day at every morning and evening, the new individual information from newspapers KSB is written in, and the old individual information from newspapers KSB is eliminated. That is, only the individual information from newspapers KSB of a draft is written in individual newspaper database DB38. Therefore, the capacity of individual newspaper database DB38 is reduced.

[0049]That is, the individual information from newspapers KSB contains the report KJD about the newspaper publishing company which contracted, respectively about the space SMN and the clipping plane CKN a contract of was made about each user.

[0050]The report KJD of the related newspaper publishing company which contracted for every report is arranged at each space SMN. That is, by analyzing and comparing a title etc. about the report KJD contained in the one space SMN, the relevance of those reports KJD is detected, and it is collectively arranged by the report with the relation published by each paper.

[0051]In the example of drawing 8, it is supposed that the report 1 of A newspaper publishing company and the report 1 of B newspaper publishing company are related, and they are arranged one by one.Also about the report 2, it is supposed that the report 2 of A newspaper publishing company and the report 2 of B newspaper publishing company are related, and they are arranged one by one.

[0052]Also in the clipping plane CKN, the report KJD of the newspaper publishing company which contracted for every report is arranged like the space SMN. In each space SMN and the clipping plane CKN, the advertisement data KUK which is different for every space, respectively is arranged. By arranging the advertisement data KUK to a user's individual information from newspapers KSB, an electronic newspaper company collects the charge of advertising printing from an advertising company.

[0053]Newspaper screen HG1 shown in drawing 9 is displayed based on newspaper file DB61 and news flash file DB62 which were stored in the user terminal 6. That is, the individual information from newspapers KSB transmitted to the user terminal 6 concerned from the information-from-newspapers host system 3 is stored in newspaper file DB61. When having

applied subscription of the news flash information SHS, the news flash information SHS transmitted from the information-from-newspapers host system 3 is stored in news flash file DB62. These individual information from newspapers KSB and the news flash information SHS are displayed as newspaper screen HG1.

[0054]In drawing 9, a tag attaches newspaper screen HG1 to each space SMN, it is displayed on it, and the report KJD of each space SMN is displayed by clicking each tag. Each report KJD is found out into a big headline, and is arranged in order of a subtitle and the text at a display surface. The report KJD is arranged in order of the individual information from newspapers KSB shown in drawing 8, and is displayed.

[0055]About a picture, it is displayed by clicking the image mark displayed there. However, the reduced version of a picture may be displayed. In each space SMN, all the required reports KJD can be displayed by scrolling a screen. When the sound is contained in information-from-newspapers SBS, it is emitted from the loudspeaker which the sound does not illustrate.

[0056]Based on the advertisement data KUK, advertising KUK1 is displayed on the position in the newspaper screen HG1. Advertising KUK1 differ for every space SMN. It does not move, even when a screen is scrolled.

[0057]While displaying the arbitrary space SMN, when the news flash information SHS enters, news flash window HG2 shown in drawing 10 is displayed in the center of the screen. By this, the user can know easily that the news flash information SHS entered. If the OK button of news flash window HG2 is clicked, a news flash side will be displayed and the news flash information SHS will be displayed there.

[0058]News flash window HG2 is displayed [when other arbitrary screens are displayed, and] when the user terminal 6 is started, and the news flash information SHS enters. What is necessary is just to click the tag of news flash in drawing 9 to see the news flash information SHS.

[0059]Thus, the user can **** information-from-newspapers SBS and the news flash information SHS on the display surface of the user terminal 6. And since information-from-newspapers SBS displayed is a thing about the space SMN which the user itself chose, a newspaper publishing company, or the keyword KW, unnecessary information is excluded and only information required for a user is displayed.

[0060]Therefore, it is not necessary to choose required information like before, and the user can know information required of a short time. The data volume of the individual information from newspapers KSB transmitted from the information-from-newspapers host system 3 is reduced, and the transmission quantity of data and the data volume of newspaper file DB61 in the user terminal 6 are reduced.

[0061]Even if a user is from the place in which the user terminal 6 is not installed, he can **** individual information from newspapers KSB using a portable telephone, mobile computing

devices, etc. It is possible to find out to mobile computing devices, to display a chisel in that case, and to make it transmit to the facsimile of the number which specifies the text corresponding to it about the title which the user specified on the screen.

[0062]As shown in drawing 11, it is possible to display newspaper subscription application screen HG3 on the display surface of the display 62, and to input the individual contract data D371 - 3 into it from on the screen.

[0063]In drawing 11, by newspaper subscription application screen HG3, since the column of the membership number KIB and the name NME is displayed, a user inputs, respectively. In the column of a newspaper publishing company and space, the newspaper and the space SMN which a user wishes, respectively are inputted in order, respectively, and additional button BT11 is clicked. The entry content is reflected in the column of a contract state by this. In deleting an unnecessary newspaper or space from the column of a contract state, it is inputted into the column of a newspaper publishing company and space, and it clicks deletion button BT12. The contents displayed on the column of the contract state show the newspaper and space which wish to subscribe, and are registered as the newspaper contract code SKC and space contract code TSM.

[0064]When performing a clipping contract, the keyword expected of the column of the keyword KW is inputted, and additional button BT13 is clicked. Required logical symbols are inputted. The entry content is reflected in the column of a contract state by this. The contents displayed on the column of the contract state are registered as the keyword TKW.

[0065]In wishing subscription of news flash, it inputs "he wishs" into the column of news flash subscription. the case where reception of the individual information from newspapers KSB is wished except a house -- the column of reception existence other than a house -- "-- owner" is inputted. In that case, the suitable password for the column of a password is entered and set up.

[0066]After the contractor code KYC applies for newspaper subscription, it is given from the information-from-newspapers host system 3 to the user concerned. Although the graphic display was omitted, the contract of newspaper subscription can be performed per Japanese, per Japanese, cancellation is also performed and a change can also be made. Only a morning paper can also perform the contract of only an evening paper. The contract which makes only a text, i.e., a picture, unnecessary by conditions of contract is also possible. It is possible to perform a time designated contract, and in that case, the information-from-newspapers host system 3 creates the individual information from newspapers KSB at the specified time, and transmits to the user terminal 6 of the user concerned.

[0067]Thus, from newspaper subscription application screen HG3 displayed on the user terminal 6, easily, the application of newspaper subscription is performed and the user can make a change of contractual coverage etc.

[0068]However, it replaces with such newspaper subscription application screen HG3, and may be made to put in a check to the newspaper publishing company and space which display the name of a paper company, and the space name about a paper company in list, and wish for them.

[0069]An application and change of newspaper subscription can be made also by filling in space and sending by mail or a facsimile only from the display surface of the user terminal 6.

[0070]The user can operate the user terminal 6, can input the column (field) of readers' voice to a paper company, a scoop photograph, a report, etc., and can transmit it to the information-from-newspapers host system 3. The information-from-newspapers host system 3 which received them is distributed and transmitted to a paper company if needed. By this, the newspaper publishing company can receive the contribution from a user, and can total a user's claim or a request.

[0071]The user can demand the past information from newspapers SBK. In that case, a required matter is inputted from the user terminal 6, and it transmits to the information-from-newspapers host system 3. Based on the transmitted contents, the past editing processing part 42 searches the information from newspapers SBK out of newspaper database DB34, extracts required information, and transmits the information-from-newspapers host system 3 to the user terminal 6 concerned.

[0072]The expense accompanying a user's newspaper subscription is charged directly to a user's predetermined account timely according to contractual coverage. It is also possible to perform to on-line pull down.

[0073]Drawing 12 is a figure showing the gestalt of recording-medium ST of the program for realizing the electronic newspaper system 1 concerning this invention. Such a program is installed in any one of the information-from-newspapers host system 3, the press system 4, or the user terminals 6, or those two or more. Drawing 12 shows processing unit PS of an install destination.

[0074]Main memory, RAM which were provided in processing unit PS as shown in drawing 12, Memory storage STAs, such as ROM or a hard disk, CD-ROM, Circuit point medium STCs, such as a server or DASD tied with portable medium STBs, such as a floppy disk or a magneto-optical disc, a network, or communication line STD, are available as a recording-medium ST.

[0075]When recording-medium ST is portable medium STB, a program is read by the drive device corresponding to the kind of portable medium STB, and is stored in memory storage STA of processing unit PS, or loading is carried out on main memory, and it is executed. When recording-medium ST is circuit point medium STC, a program is downloaded to memory storage STA via communication line STD, or is transmitted timely and executed. A program can be supplied so that it may operate under various OS's, a platform, system environment, or

a network environment.

[0076]In the embodiment described above, it is possible to use various communications protocols for communication between the information-from-newspapers host system 3, the user terminal 6, or the press system 4. A personal computer, a workstation, a general purpose computer, other various computers, or a device can be used as the information-from-newspapers host system 3, the press system 4, the advertising company system 5, and the user terminal 6. The contents of the whole electronic newspaper system 1 or the composition of each part, the number, a database, or data or arrangement order and the contents of processing, an order or timing, the contents of Screen HG, etc. can be suitably changed in accordance with the meaning of this invention.

[0077]This invention is applicable not only to distribution of information from newspapers but distribution of other various information.

[0078]

[Effect of the Invention]According to this invention, it is easy to **** the information which the user could receive only required information and received in the user. The transmission quantity and the storage capacity of data are mitigable.

[0079]According to Claim 2 and the invention of 5, the information from newspapers for which a user wishes can be extracted more correctly.

[Translation done.]

* NOTICES *

JPO and INPIT are not responsible for any damages caused by the use of this translation.

1.This document has been translated by computer. So the translation may not reflect the original precisely.
2.**** shows the word which can not be translated.
3.In the drawings, any words are not translated.

TECHNICAL FIELD

[Field of the Invention]This invention relates to the electronic intelligence distribution system for distributing the information from newspapers especially published from two or more newspaper publishing companies to two or more users about an electronic intelligence distribution system and a recording medium.

[Translation done.]

* NOTICES *

JPO and INPIT are not responsible for any damages caused by the use of this translation.

1.This document has been translated by computer. So the translation may not reflect the original precisely.
2.**** shows the word which can not be translated.
3.In the drawings, any words are not translated.

PRIOR ART

[Description of the Prior Art]Conventionally, a newspaper is delivered by each user (subscriber) in the time zone when every morning and evening was decided. There are the 1st page, the general news page, the financial page, etc. in a newspaper, and it finds out into a big headline, respectively, and is edited using the subtitle etc. The user can read a newspaper by the detail doubled with the convenience of its time.
[0003]Now, a newspaper is electronized and the system distributed to a user via a network is proposed (JP,H8-256174,A). In this conventional system, the information from newspapers by which composition processing was carried out is changed into the electronic newspaper information of a format suitable for electronic transmission and an inspection, and is distributed to a user via a communications satellite, a broadcasting satellite, terrestrial broadcasting, or CATV. In a user, the received electronic newspaper information is first displayed on a display surface with low magnification. If there is a report to wish, it will be made to display with high magnification. With an input device, an electronic newspaper can be ****(ed) with the feeling same with ****(ing) a paper newspaper by operating a page substitute, scrolling, zoom, or a clipping.

[Translation done.]

* NOTICES *

JPO and INPIT are not responsible for any damages caused by the use of this translation.

1.This document has been translated by computer. So the translation may not reflect the original precisely.
2.**** shows the word which can not be translated.
3.In the drawings, any words are not translated.

EFFECT OF THE INVENTION

[Effect of the Invention]According to this invention, it is easy to **** the information which the user could receive only required information and received in the user. The transmission quantity and the storage capacity of data are mitigable.
[0079]According to Claim 2 and the invention of 5, the information from newspapers for which a user wishes can be extracted more correctly.

[Translation done.]

* NOTICES *

JPO and INPIT are not responsible for any damages caused by the use of this translation.

1.This document has been translated by computer. So the translation may not reflect the original precisely.
2.**** shows the word which can not be translated.
3.In the drawings, any words are not translated.

TECHNICAL PROBLEM

[Problem(s) to be Solved by the Invention]In the conventional electronic-newspaper-information system described above, after changing the signal into electronic newspaper information paying attention to the information from newspapers by which composition processing was carried out being an electrical signal, it transmits to each user using various transmission media.
[0005]However, according to it, each user of what can **** information from newspapers with user-friendliness with the user near a paper newspaper needs to choose required information or information to read from all the received information from newspapers.
[0006]Since the area of the display surface of a display is restricted, even if it is a case where the method of presentation is devised how, compared with the case where a paper newspaper is opened, the list nature is usually inferior. Therefore, it is not easy to choose information required out of information from newspapers similar to a newspaper side on a display surface.
[0007]Although the user can acquire all the information from newspapers and required information can be chosen by spending many hours from the inside, Since the information which is not required will also be received, there is also a problem that the data volume memorized in the terminal unit of the data volume transmitted and a user increases superfluously.
[0008]This invention was made in view of the above-mentioned problem, and only the information which a user needs can be received, It is easy to **** the information received in the user, and it aims at providing the electronic intelligence distribution system and recording medium which can reduce the transmission quantity and the storage capacity of data.

[Translation done.]

* NOTICES *

JPO and INPIT are not responsible for any damages caused by the use of this translation.

1.This document has been translated by computer. So the translation may not reflect the original precisely.
2.**** shows the word which can not be translated.
3.In the drawings, any words are not translated.

MEANS

[Means for Solving the Problem]An information database in which a system concerning an invention of Claim 1 stores electronic intelligence acquired, A selection information storing means which stores selection information for choosing required information out of electronic intelligence about each user, An editing means which retrieves and edits required information about each user using said selection information out of information stored in said information database, It has a user compilation information storing means which stores edited information for every user, and a transmitting means which transmits information stored in said user compilation information storing means to each user via a network, and is constituted.
[0010]A keyword which a means to give a keyword to electronic intelligence stored in an information database was formed if needed, and a user chose as said selection information is contained. An editing means retrieves and edits required information out of information stored in said information database based on a keyword contained in said selection information.
[0011]When an electronic intelligence distribution system is applied to an electronic newspaper, information from newspapers is used as electronic intelligence. In that case, an editing means is constituted so that information from newspapers may be edited for every space information. When it searches based on a keyword, searched information from newspapers is edited as clipping information other than each space information. A news flash database in which news flash information published from a newspaper publishing company is stored is formed, and it transmits to a user in a time zone beforehand provided in 2 times of every morning and evening on the day about information from newspapers, and transmits to a user immediately about newly published news flash information.
[0012]A user terminal is provided with the following.
Memory storage which stores information from newspapers received from an information-from-newspapers host system.
A display which displays information from newspapers stored in memory storage.

When information from newspapers is displayed on a display of a user terminal for every space and news flash information is newly received, that is displayed on a display.
[0013]An electronic intelligence distribution system concerning this invention is realized using various computers or devices of a personal computer, a workstation, a general purpose computer, mobile computing devices, and others, for example. A program for realizing an electronic intelligence distribution system concerning this invention is stored in recording media, such as semiconductor memory, a hard disk, CD-ROM, a floppy (registered trademark) disk, or a magneto-optical disc. Loading of the program stored in a recording medium is carried out timely on main memory, and it is executed by a processing unit. In that case, drive devices, such as a CD-ROM drive, a floppy disk drive, or a Magnetic-Optical disk drive, are used if needed. When a recording medium is formed in a server connected with communication lines, such as a network, via a communication line, a program is read in a server or it downloads. A program can be supplied so that it may operate under various OS's, a platform, system environment, or a network environment.
[0014]
[Embodiment of the Invention]The example which applied the electronic intelligence distribution system to the electronic newspaper system below is explained.
[0015]Drawing 1 is a block diagram showing the composition of the electronic newspaper system 1 concerning this invention. The electronic newspaper system 1 consists of the information-from-newspapers host system 3, the press systems 4a and 4b, 4c--, the advertising company system 5, the user terminals 6a and 6b, 6c-- and network NW1 that connects them, NW2, etc. in drawing 1.
[0016]The whole or part may be pointed out, respectively and the press systems 4a and 4b, 4c-- and the user terminals 6a and 6b, and 6c-- may be indicated to be the "press system 4" or the "user terminal 6." The same may be said of others. Two or more advertising company systems 5 may also be formed. The information-from-newspapers host system 3 may also be distributed and formed in two or more parts.
[0017]The information-from-newspapers host system 3 is installed in the building founded, for example as an electronic newspaper company. The information-from-newspapers host system 3, On the scheduler 31, the data acquisition processing part 32, the data distribution treating part 33, the newspaper data storage parts store 34, the news flash data storage part 35, the advertisement data storage parts store 36, the individual contract data storage part 37, the individual newspaper data storage parts store 38, and the day The editing processing part 41, the past editing processing part 42, And it consists of the keyword generation part 43 etc.
[0018]Newspaper database DB34 to the news flash data storage part 35 at the newspaper data storage parts store 34 news flash database DB35, Individual contract data base DB37 is provided in the individual contract data storage part 37, and individual newspaper database

DB38 is provided for advertisement database DB36 in the individual newspaper data storage parts store 38 at the advertisement data storage parts store 36, respectively.

[0019]The data acquisition processing part 32 communicates between the press system 4 and the advertising company system 5, and acquires required information-from-newspapers SBS, the news flash information SHS, and the advertisement data KUK. In that case, according to the timing directions from the scheduler 31, a subsequent data demand is transmitted to the paper company system 4, and information-from-newspapers SBS is received from the paper company system 4. However, when transmitting preparation of information-from-newspapers SBS is completed in the press system 4, without being based on the timing directions from the scheduler 31, it may be made to transmit from the press system 4.

[0020]The news flash information SHS is transmitted from information-from-newspapers SBS, when the news flash information SHS arises in the press system 4. However, it asks from the information-from-newspapers host system 3 with a predetermined cycle to the press system 4, and when there is the new news flash information SHS, it may be made to transmit it for example.

[0021]The data distribution treating part 33 communicates between the information-from-newspapers host system 3 and the user terminal 6, and transmits the individual information from newspapers KSB to each user terminal 6. In that case, a seizing signal is transmitted to the user terminal 6, for example according to the timing directions from the scheduler 31. The user terminal 6 starts the application for reception, etc., and makes the preparations for reception. If the receiving preparation of the user terminal 6 is completed, a transmission notice will be taken out from the information-from-newspapers host system 3 to the user terminal 6, and if a ready-for-receiving ability signal comes on the contrary from the user terminal 6, the individual information from newspapers KSB will be transmitted. To the user terminal 6 which was not able to transmit the individual information from newspapers KSB, a download request is performed from the user terminal 6 to the information-from-newspapers host system 3 after that, and the individual information from newspapers KSB is transmitted from the information-from-newspapers host system 3 corresponding to this.

[0022]After always performing a download request from each user terminal 6 to the information-from-newspapers host system 3, it may be made to transmit the individual information from newspapers KSB. What is necessary is to perform a download request from mobile computing devices, and just to enter a password etc., when a user acquires the individual information from newspapers KSB from outside using mobile computing devices etc.

[0023]When receiving the individual information from newspapers KSB in mobile computing devices, Information is divided into the size which can be displayed by mobile computing devices, and it may be made to download, and may be made for the article information

corresponding to the title which only title information downloaded previously and the user chose to download each time.

[0024]The data of individual contract data D371-3 transmitted to the information-from-newspapers host system 3 from the user terminal 6 and others, instructions, etc. are received, and the data distribution treating part 33 can be memorized or changed for required processing.

[0025]Newspaper publishing company database DB41A, B, and C-- are provided in the paper company system 4, and the information from newspapers SBSa and SBSb which A newspaper publishing company, B newspaper publishing company, and C newspaper publishing company -- etc. created, and SBSc-- are stored in it, respectively.

[0026]The advertising company system 5 is equipped with advertising company database DB51 which memorized much advertisement data KUK of the company which provides an advertisement, or the individual. The user terminal 6 is equipped with the processing unit 61, the display 62, the memory storage 63, etc. Newspaper file DB61, news flash file DB62, etc. are stored in the memory storage 63.

[0027]A personal computer, a dedicated terminal, or the terminal unit of combination can be used for the user terminal 6, for example. It is also possible to use various mobile computing devices including a portable telephone.

[0028]As network NW1, a dedicated line or a public line is used, for example. As network NW2, a public line, a dedicated line, a CATV network, or the Internet is used. The thing [using a part for all] is also possible for any case in the wireless circuit using the wire circuit by wire or an optical fiber, an electric wave, infrared rays, etc.

[0029]The figure in which drawing 2 shows newspaper publishing company database DB41, the figure in which drawing 3 shows newspaper database DB34, The figure in which the figure, drawing 5, or drawing 7 which drawing 4 shows news flash database DB35 shows some of data D371 stored in individual contract data base DB37 - contents of three, respectively, The figure in which drawing 8 shows individual newspaper database DB38, the figure in which drawing 9 shows the example of newspaper screen HG1 displayed on the display surface of the display 62, The figure showing the example of news flash window HG2 as which drawing 10 is displayed when news flash information is transmitted to the user terminal 6, and drawing 11 are the figures showing the example of newspaper subscription application screen HG3 displayed on the display surface of the display 62.

[0030]As shown in drawing 2, information-from-newspapers SBS stored in newspaper publishing company database DB41 is summarized for every space SMN like 1st page SMN1, general news page SMN2, and financial page SMN3. As the space (or column) SMN, there are a political front, a comprehensive field, an international aspect, a sports page, a program side, an editorial page, readers' other voice sides, etc.

[0031]A big headline and a picture like a subtitle, the text and a photograph, or an illustration which acts as Izuru Nakami are summarized in each space SMN about each report KJD like the report 1, the report 2, and report 3 --. A sound etc. may be added to this.
[0032]Although the one report KJD, the one space SMN, or one information-from-newspapers SBS may be stored in one database or a file, it does not necessarily need to be physically stored in one storage. For example, only the address of the link destination is stored in the same file about a picture, and the contents of a picture may exist on other storages specified in the address. The same may be said of others.
[0033]Information-from-newspapers SBS is created according to the morning paper and evening paper of a day in which a newspaper is published. Information-from-newspapers SBS stored newspaper publishing company database DB41 is transmitted to the information-from-newspapers host system 3 in the time zone when every morning and evening was set beforehand.
[0034]At a paper company, although the graphic display was omitted, when news flash is published, the news flash information SHS which data-ized it is stored in newspaper publishing company database DB41, and is immediately transmitted to the information-from-newspapers host system 3 after that.
[0035]In drawing 3, the information from newspapers SBK of the paper company is stored in newspaper database DB34 of a paper company. The information from newspapers SBK consists of information-from-newspapers SBS sent from a newspaper publishing company, and the keyword KW about each of that report KJD.
[0036]Information-from-newspapers SBS is the same as what is transmitted from the paper company system 4. The keyword KW is generated by the keyword generation part 43 corresponding to the contents of each report KJD.
[0037]It is possible to use various methods as a generation method of the keyword KW. For example, what is necessary is just to choose the keyword KW from the words used for the text or the title of the report KJD. It may choose from the keywords KW registered beforehand.
[0038]In drawing 4, the news flash information SHS sent from the paper company is stored in news flash database DB35 as it is. The stored news flash information SHS is immediately transmitted to the user who contracted in accordance with the contractual coverage memorized by the individual contract data storage part 37.
[0039]The individual contract data D371 consists of the membership number KIB, the contractor code KYC, the password PWD, newspaper contract code SKC about each paper, clipping contract code CKC, the distribution high limit setting HJS, the news flash reception necessity SUY, etc. in drawing 5.
[0040]The membership number KIB is a number uniquely given to the member who can receive the predetermined service including the newspaper subscription by the electronic

newspaper system 1. The contractor code KYC is a code uniquely given to the member who applied for the newspaper subscription by the electronic newspaper system 1. The password PWD is given if needed to the member to whom the contractor code KYC was given.

[0041]A newspaper contract code, B newspaper contract code SKC, etc. are codes which show that it applied for subscription of A newspaper, B newspaper, etc., respectively. The clipping contract code CKC is a code which shows that it applied for the distribution service of the report searched by the keyword KW. When having applied for subscription of each paper, or distribution of the report by the keyword KW, the information which shows that it is the newspaper name or clipping contract the code which shows those each paper, for example was set to "1", or a contract of was made is registered.

[0042]The distribution high limit setting HJS is for setting up the upper limit of the data volume, when the information from newspapers SBK etc. are transmitted to the user terminal 6. The data exceeding the set-up upper limit is not transmitted. The news flash reception necessity SUY is a code which shows that it applied for subscription of the news flash information SHS.

[0043]In drawing 6, the individual contract data D372 sets up the detailed contents about the set-up newspaper contract code SKC in the individual contract data D371 shown in drawing 5. The individual contract data D372 consists of the contractor code KYC, the newspaper contract code SKC, space contract code TSM, etc.

[0044]Space contract code TSM is information which shows which space he wishes to the information from newspapers SBK of the newspaper publishing company concerned. That is, about the information from newspapers SBK, users are not the all, and can specify and make a contract of space like the 1st page, the general news page, and the financial side. A user specifies the space to wish. The specified space is registered as space contract code TSM.

[0045]In drawing 7, in the individual contract data D371 shown in drawing 5, the individual contract data D373 sets up the detailed contents, when the clipping contract code CKC is set up. The individual contract data D373 consists of the contractor code KYC, the clipping contract code CKC, the keyword TKW, etc.

[0046]As the keyword TKW, two or more words which a user wishes can be registered with the logic which applies them. In the example of drawing 7, a "new product", the "electrical and electric equipment", a "household appliance", and a "stock price" are chosen as a word, and it is set up search the title and the text of each report KJD with the logic of a "new product" and ("electrical-and-electric-equipment" or a "household appliance"), or a "stock price", and extract the hit report KJD in it.

[0047]In drawing 8, the individual information from newspapers KSB stored in individual newspaper database DB38 edits the information from newspapers which was searched by the editing processing part 41 out of newspaper database DB34 on the day, and was extracted for every user along with the individual contract data D371 - 3.

[0048]As for the individual information from newspapers KSB, whenever edit is performed every day at every morning and evening, the new individual information from newspapers KSB is written in, and the old individual information from newspapers KSB is eliminated. That is, only the individual information from newspapers KSB of a draft is written in individual newspaper database DB38. Therefore, the capacity of individual newspaper database DB38 is reduced.

[0049]That is, the individual information from newspapers KSB contains the report KJD about the newspaper publishing company which contracted, respectively about the space SMN and the clipping plane CKN a contract of was made about each user.

[0050]The report KJD of the related newspaper publishing company which contracted for every report is arranged at each space SMN. That is, by analyzing and comparing a title etc. about the report KJD contained in the one space SMN, the relevance of those reports KJD is detected, and it is collectively arranged by the report with the relation published by each paper.

[0051]In the example of drawing 8, it is supposed that the report 1 of A newspaper publishing company and the report 1 of B newspaper publishing company are related, and they are arranged one by one.Also about the report 2, it is supposed that the report 2 of A newspaper publishing company and the report 2 of B newspaper publishing company are related, and they are arranged one by one.

[0052]Also in the clipping plane CKN, the report KJD of the newspaper publishing company which contracted for every report is arranged like the space SMN. In each space SMN and the clipping plane CKN, the advertisement data KUK which is different for every space, respectively is arranged. By arranging the advertisement data KUK to a user's individual information from newspapers KSB, an electronic newspaper company collects the charge of advertising printing from an advertising company.

[0053]Newspaper screen HG1 shown in drawing 9 is displayed based on newspaper file DB61 and news flash file DB62 which were stored in the user terminal 6. That is, the individual information from newspapers KSB transmitted to the user terminal 6 concerned from the information-from-newspapers host system 3 is stored in newspaper file DB61. When having applied subscription of the news flash information SHS, the news flash information SHS transmitted from the information-from-newspapers host system 3 is stored in news flash file DB62. These individual information from newspapers KSB and the news flash information SHS are displayed as newspaper screen HG1.

[0054]In drawing 9, a tag attaches newspaper screen HG1 to each space SMN, it is displayed on it, and the report KJD of each space SMN is displayed by clicking each tag. Each report KJD is found out into a big headline, and is arranged in order of a subtitle and the text at a display surface. The report KJD is arranged in order of the individual information from

newspapers KSB shown in drawing 8, and is displayed.

[0055]About a picture, it is displayed by clicking the image mark displayed there. However, the reduced version of a picture may be displayed. In each space SMN, all the required reports KJD can be displayed by scrolling a screen. When the sound is contained in information-from-newspapers SBS, it is emitted from the loudspeaker which the sound does not illustrate.

[0056]Based on the advertisement data KUK, advertising KUK1 is displayed on the position in the newspaper screen HG1. Advertising KUK1 differ for every space SMN. It does not move, even when a screen is scrolled.

[0057]While displaying the arbitrary space SMN, when the news flash information SHS enters, news flash window HG2 shown in drawing 10 is displayed in the center of the screen. By this, the user can know easily that the news flash information SHS entered. If the OK button of news flash window HG2 is clicked, a news flash side will be displayed and the news flash information SHS will be displayed there.

[0058]News flash window HG2 is displayed [when other arbitrary screens are displayed, and] when the user terminal 6 is started, and the news flash information SHS enters. What is necessary is just to click the tag of news flash in drawing 9 to see the news flash information SHS.

[0059]Thus, the user can **** information-from-newspapers SBS and the news flash information SHS on the display surface of the user terminal 6. And since information-from-newspapers SBS displayed is a thing about the space SMN which the user itself chose, a newspaper publishing company, or the keyword KW, unnecessary information is excluded and only information required for a user is displayed.

[0060]Therefore, it is not necessary to choose required information like before, and the user can know information required of a short time. The data volume of the individual information from newspapers KSB transmitted from the information-from-newspapers host system 3 is reduced, and the transmission quantity of data and the data volume of newspaper file DB61 in the user terminal 6 are reduced.

[0061]Even if a user is from the place in which the user terminal 6 is not installed, he can **** individual information from newspapers KSB using a portable telephone, mobile computing devices, etc. It is possible to find out to mobile computing devices, to display a chisel in that case, and to make it transmit to the facsimile of the number which specifies the text corresponding to it about the title which the user specified on the screen.

[0062]As shown in drawing 11, it is possible to display newspaper subscription application screen HG3 on the display surface of the display 62, and to input the individual contract data D371 - 3 into it from on the screen.

[0063]In drawing 11, by newspaper subscription application screen HG3, since the column of the membership number KIB and the name NME is displayed, a user inputs, respectively. In

the column of a newspaper publishing company and space, the newspaper and the space SMN which a user wishes, respectively are inputted in order, respectively, and additional button BT11 is clicked. The entry content is reflected in the column of a contract state by this. In deleting an unnecessary newspaper or space from the column of a contract state, it is inputted into the column of a newspaper publishing company and space, and it clicks deletion button BT12. The contents displayed on the column of the contract state show the newspaper and space which wish to subscribe, and are registered as the newspaper contract code SKC and space contract code TSM.

[0064]When performing a clipping contract, the keyword expected of the column of the keyword KW is inputted, and additional button BT13 is clicked. Required logical symbols are inputted. The entry content is reflected in the column of a contract state by this. The contents displayed on the column of the contract state are registered as the keyword TKW.

[0065]In wishing subscription of news flash, it inputs "he wishs" into the column of news flash subscription. the case where reception of the individual information from newspapers KSB is wished except a house -- the column of reception existence other than a house -- "-- owner" is inputted. In that case, the suitable password for the column of a password is entered and set up.

[0066]After the contractor code KYC applies for newspaper subscription, it is given from the information-from-newspapers host system 3 to the user concerned. Although the graphic display was omitted, the contract of newspaper subscription can be performed per Japanese, per Japanese, cancellation is also performed and a change can also be made. Only a morning paper can also perform the contract of only an evening paper. The contract which makes only a text, i.e., a picture, unnecessary by conditions of contract is also possible. It is possible to perform a time designated contract, and in that case, the information-from-newspapers host system 3 creates the individual information from newspapers KSB at the specified time, and transmits to the user terminal 6 of the user concerned.

[0067]Thus, from newspaper subscription application screen HG3 displayed on the user terminal 6, easily, the application of newspaper subscription is performed and the user can make a change of contractual coverage etc.

[0068]However, it replaces with such newspaper subscription application screen HG3, and may be made to put in a check to the newspaper publishing company and space which display the name of a paper company, and the space name about a paper company in list, and wish for them.

[0069]An application and change of newspaper subscription can be made also by filling in space and sending by mail or a facsimile only from the display surface of the user terminal 6.

[0070]The user can operate the user terminal 6, can input the column (field) of readers' voice to a paper company, a scoop photograph, a report, etc., and can transmit it to the information-

from-newspapers host system 3. The information-from-newspapers host system 3 which received them is distributed and transmitted to a paper company if needed. By this, the newspaper publishing company can receive the contribution from a user, and can total a user's claim or a request.

[0071]The user can demand the past information from newspapers SBK. In that case, a required matter is inputted from the user terminal 6, and it transmits to the information-from-newspapers host system 3. Based on the transmitted contents, the past editing processing part 42 searches the information from newspapers SBK out of newspaper database DB34, extracts required information, and transmits the information-from-newspapers host system 3 to the user terminal 6 concerned.

[0072]The expense accompanying a user's newspaper subscription is charged directly to a user's predetermined account timely according to contractual coverage. It is also possible to perform to on-line pull down.

[0073]Drawing 12 is a figure showing the gestalt of recording-medium ST of the program for realizing the electronic newspaper system 1 concerning this invention. Such a program is installed in any one of the information-from-newspapers host system 3, the press system 4, or the user terminals 6, or those two or more. Drawing 12 shows processing unit PS of an install destination.

[0074]Main memory, RAM which were provided in processing unit PS as shown in drawing 12, Memory storage STAs, such as ROM or a hard disk, CD-ROM, Circuit point medium STCs, such as a server or DASD tied with portable medium STBs, such as a floppy disk or a magneto-optical disc, a network, or communication line STD, are available as a recording-medium ST.

[0075]When recording-medium ST is portable medium STB, a program is read by the drive device corresponding to the kind of portable medium STB, and is stored in memory storage STA of processing unit PS, or loading is carried out on main memory, and it is executed. When recording-medium ST is circuit point medium STC, a program is downloaded to memory storage STA via communication line STD, or is transmitted timely and executed. A program can be supplied so that it may operate under various OS's, a platform, system environment, or a network environment.

[0076]In the embodiment described above, it is possible to use various communications protocols for communication between the information-from-newspapers host system 3, the user terminal 6, or the press system 4. A personal computer, a workstation, a general purpose computer, other various computers, or a device can be used as the information-from-newspapers host system 3, the press system 4, the advertising company system 5, and the user terminal 6. The contents of the whole electronic newspaper system 1 or the composition of each part, the number, a database, or data or arrangement order and the contents of

processing, an order or timing, the contents of Screen HG, etc. can be suitably changed in accordance with the meaning of this invention.

[0077]This invention is applicable not only to distribution of information from newspapers but distribution of other various information.

[Translation done.]

* NOTICES *

JPO and INPIT are not responsible for any damages caused by the use of this translation.

1.This document has been translated by computer. So the translation may not reflect the original precisely.
2.**** shows the word which can not be translated.
3.In the drawings, any words are not translated.

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]
[Drawing 1]It is a block diagram showing the composition of the electronic newspaper system concerning this invention.
[Drawing 2]It is a figure showing a newspaper publishing company database.
[Drawing 3]It is a figure showing a newspaper database.
[Drawing 4]It is a figure showing a news flash database.
[Drawing 5]It is a figure showing some contents of the data stored in an individual contract data base.
[Drawing 6]It is a figure showing some contents of the data stored in an individual contract data base.
[Drawing 7]It is a figure showing some contents of the data stored in an individual contract data base.
[Drawing 8]It is a figure showing an individual newspaper database.
[Drawing 9]It is a figure showing the example of the newspaper screen displayed on the display surface of a display.
[Drawing 10]It is a figure showing the example of the news flash window displayed when news flash information is transmitted to a user terminal.
[Drawing 11]It is a figure showing the example of the newspaper subscription application screen displayed on the display surface of a display.
[Drawing 12]It is a figure showing the gestalt of the recording medium of the program for realizing the electronic intelligence distribution system concerning this invention.
[Description of Notations]
1 electronic newspaper system (electronic intelligence distribution system)
3 Information-from-newspapers host system
4 Press system

6 User terminal (user)
33 Data distribution treating part (transmitting means)
41 An editing processing part on the day (editing means)
43 keyword generation part (a means to give a keyword)
62 Display
63 Memory storage
DB34 Newspaper database (information database)
DB35 News flash database
DB37 individual contract data base (selection information storing means)
DB38 individual newspaper database (user compilation information storing means)
SBK Information from newspapers
SHS News flash information
SKC Newspaper contract code (selection information, newspaper publishing company information)
TSM Space contract code (selection information, space information)
CKC Clipping contract code (selection information)
TKW Keyword (selection information)
SMN Space (space information)
CKN clipping plane (clipping information)
NW2 Network
ST Recording medium

[Translation done.]

* NOTICES *

JPO and INPIT are not responsible for any damages caused by the use of this translation.

1.This document has been translated by computer. So the translation may not reflect the original precisely.
2.**** shows the word which can not be translated.
3.In the drawings, any words are not translated.

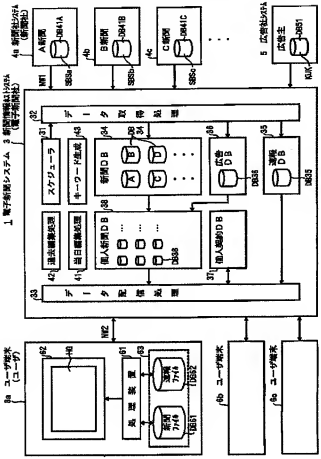
DRAWINGS

[Drawing 10]

ユーザ端末に速報情報が送信されたときに表示される速報ウインドウの例を示す図

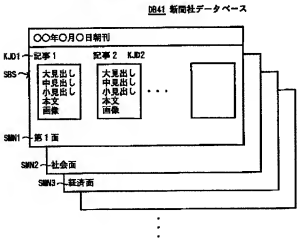
[Drawing 1]

本発明に係る電子新聞システムの構成を示すブロック図



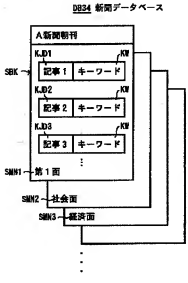
[Drawing 2]

新聞社データベースを示す図



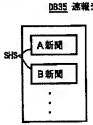
[Drawing 3]

新聞データベースを示す図



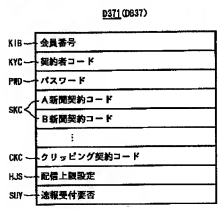
[Drawing 4]

速報データベースを示す図



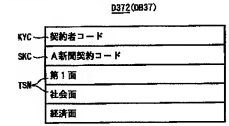
[Drawing 5]

個人契約データベースに格納されるデータの内容の一部を示す図



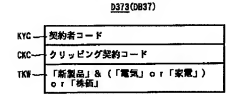
[Drawing 6]

個人契約データベースに格納されるデータの内容の一部を示す図



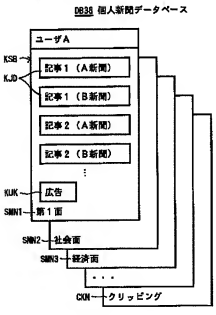
[Drawing 7]

個人契約データベースに格納されるデータの内容の一部を示す図



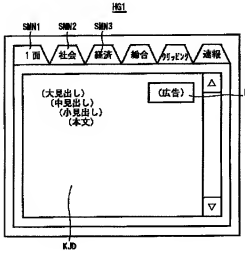
[Drawing 8]

個人新聞データベースを示す図



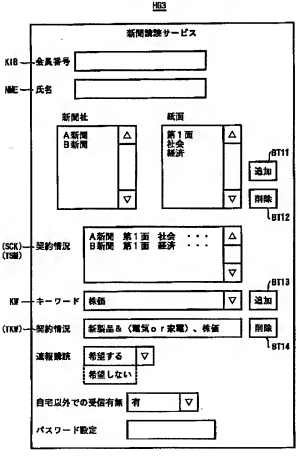
[Drawing 9]

表示装置の表示面に表示される新聞画面の例を示す図



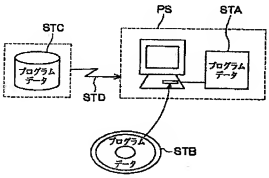
[Drawing 11]

表示装置の表示面に表示される新聞購読申込み画面の例を示す図



[Drawing 12]

本発明に係る電子情報配信システムを実現するためのプログラムの記録媒体の形態を示す図



[Translation done.]

(19)日本国特許庁（ＪＰ）　(12)**公開特許公報**（Ａ）　(11)特許出願公開番号
特開2001－312509
（P2001－312509A）
(43)公開日　平成13年11月９日(2001.11.9)

(51)Int.Cl.[7]	識別記号	Ｆ Ｉ		テーマコード（参考）
Ｇ０６Ｆ　17/30	３４０	Ｇ０６Ｆ　17/30	３４０Ａ	５Ｂ０４９
	１１０		１１０Ｆ	５Ｂ０７５
	１７０		１７０Ｚ	
13/00	５４０	13/00	５４０Ｅ	
17/60	ＺＥＣ	17/60	ＺＥＣ	

審査請求 有　請求項の数９　ＯＬ　（全 11 頁）　最終頁に続く

(21)出願番号　特願2000－129170(P2000－129170)

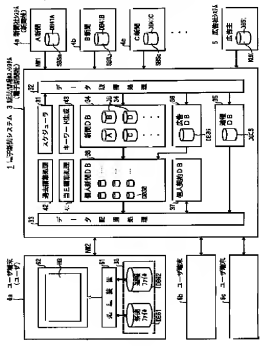
(22)出願日　平成12年４月28日(2000.4.28)

(71)出願人　000005223
富士通株式会社
神奈川県川崎市中原区上小田中４丁目１番１号
(72)発明者　仲田　一生
神奈川県川崎市中原区上小田中４丁目１番１号　富士通株式会社内
(72)発明者　小原　不二夫
神奈川県川崎市中原区上小田中４丁目１番１号　富士通株式会社内
(74)代理人　100086933
弁理士　久保　幸雄

最終頁に続く

(54)【発明の名称】　電子情報配信システムおよび記録媒体

(57)【要約】
【課題】ユーザが必要な情報のみを受信することができ、ユーザにおいて受信した情報を見読することを容易とし、データの伝送量および記憶容量を軽減すること。
【解決手段】複数の新聞社から発行される新聞情報を複数のユーザに配信するための電子情報配信システムであって、発行された新聞情報を蓄える新聞データベースＤＢ３４、各ユーザについて必要な新聞情報を選択するための選択情報を格納する個人契約データベースＤＢ３７、新聞データベースＤＢ３４に蓄えられた新聞情報の中から、選択情報を用いて各ユーザについての必要な新聞情報を検索して編集する編集処理部４１、編集された新聞情報を各ユーザ毎に格納する個人新聞データベースＤＢ３８、および、個人新聞データベースＤＢ３８に格納された新聞情報をネットワークを介して各ユーザに送信するデータ配信処理部３３を有してなる。



【特許請求の範囲】
【請求項１】電子情報を複数のユーザに配信するための電子情報配信システムであって、
取得される電子情報を蓄える情報データベースと、
各ユーザについて、電子情報の中から必要な情報を選択するための選択情報を格納する選択情報格納手段と、
前記情報データベースに蓄えられた情報の中から、前記選択情報を用いて各ユーザについての必要な情報を検索して編集する編集手段と、
編集された情報を各ユーザ毎に格納するユーザ編集情報格納手段と、
前記ユーザ編集情報格納手段に格納された情報をネットワークを介して各ユーザに送信する送信手段と、
を有してなることを特徴とする電子情報配信システム。
【請求項２】前記情報データベースに蓄えられる電子情報にキーワードを付与する手段が設けられ、且つ、前記選択情報としてユーザが選択したキーワードが含まれており、
前記編集手段は、前記選択情報に含まれるキーワードに基づいて、前記情報データベースに蓄えられた情報の中から必要な情報を検索して編集する、
請求項１記載の電子情報配信システム。
【請求項３】複数の新聞社から発行される新聞情報を複数のユーザに配信するための電子情報配信システムであって、
発行された新聞情報を蓄える新聞データベースと、
各ユーザについて、新聞情報の中から必要な新聞情報を選択するための選択情報を格納する選択情報格納手段と、
前記新聞データベースに蓄えられた新聞情報の中から、前記選択情報を用いて各ユーザについての必要な新聞情報を検索して編集する編集手段と、
編集された新聞情報を各ユーザ毎に格納するユーザ編集情報格納手段と、
前記ユーザ編集情報格納手段に格納された新聞情報をネットワークを介して各ユーザに送信する送信手段と、
を有してなることを特徴とする電子情報配信システム。
【請求項４】前記選択情報として、新聞社を選択するための新聞社情報および新聞の紙面を選択するための紙面情報が含まれており、
前記編集手段は、必要な新聞情報を前記紙面情報毎に編集するように構成される、
請求項３記載の電子情報配信システム。
【請求項５】前記新聞データベースに蓄えられる新聞情報にキーワードを付与する手段が設けられ、且つ、前記選択情報としてユーザが選択したキーワードが含まれており、
前記編集手段は、前記選択情報に含まれるキーワードに基づいて、前記新聞データベースに蓄えられた新聞情報の中から必要な新聞情報を検索するとともに、検索された新聞情報を、前記紙面情報毎に編集された各紙面情報とは別のクリッピング情報として編集する、
請求項４記載の電子情報配信システム。
【請求項６】新聞社から発行される速報情報を蓄える速報データベースが設けられ、
前記新聞情報については、当日の朝夕の２回に予め定められた時間帯にユーザに送信し、
新たに発行された速報情報については、すぐにユーザに送信する、
請求項３乃至請求項５のいずれかに記載の電子情報配信システム。
【請求項７】複数の新聞社から発行される新聞情報を複数のユーザに配信するための電子情報配信システムであって、
新聞情報ホストシステムと、前記新聞情報ホストシステムにネットワークを介して接続され各ユーザの下に設置された複数のユーザ端末とを有し、
前記新聞情報ホストシステムは、
発行された新聞情報を蓄える新聞データベースと、
各ユーザについて、新聞情報の中から必要な新聞情報を選択するための選択情報を格納する選択情報格納手段と、
前記新聞データベースに蓄えられた新聞情報の中から、前記選択情報を用いて各ユーザについての必要な新聞情報を検索して編集する編集手段と、
編集された新聞情報を各ユーザ毎に格納するユーザ編集情報格納手段と、
前記ユーザ編集情報格納手段に格納された新聞情報をネットワークを介して各ユーザ端末に送信する送信手段と、
を有し、
前記ユーザ端末は、
前記新聞情報ホストシステムから受信した新聞情報を格納する記憶装置と、
前記記憶装置に格納された新聞情報を表示する表示装置と、
を有してなることを特徴とする電子情報配信システム。
【請求項８】前記ユーザ端末の表示装置には、前記新聞情報が各紙面毎に表示され、
速報情報を新たに受信した場合には、その旨が前記表示装置に表示される、
請求項７記載の電子情報配信システム。
【請求項９】新聞社から発行される新聞情報を複数のユーザに配信するための電子情報配信システムを実現するためのプログラムが格納された記録媒体であって、
発行された新聞情報を新聞データベースに蓄える処理と、
新聞情報の中から必要な新聞情報を選択するための選択情報を各ユーザについて選択情報格納手段に格納する処理と、

前記新聞データベースに蓄えられた新聞情報の中から前記選択情報を用いて各ユーザについての必要な新聞情報を検索して編集する処理と、
編集された新聞情報を各ユーザ毎にユーザ編集情報格納手段に格納する処理と、
前記ユーザ編集情報格納手段に格納された新聞情報をネットワークを介して各ユーザに送信する処理と、
をコンピュータに実行させるためのプログラムを記録したコンピュータ読み取り可能な記録媒体。

【発明の詳細な説明】

【０００１】

【発明の属する技術分野】本発明は、電子情報配信システムおよび記録媒体に関し、特に、複数の新聞社から発行される新聞情報を複数のユーザに配信するための電子情報配信システムに関する。

【０００２】

【従来の技術】従来より、新聞は、朝夕の決まった時間帯に各ユーザ（購読者）に配達される。新聞には、第１面、社会面、経済面などがあり、それぞれ大見出し、中見出し、小見出しなどを用いて編集されている。ユーザは、自分の時間の都合に合わせた詳しさで新聞を読むことができる。

【０００３】さて、新聞を電子化し、ネットワークを介してユーザに配信するシステムが提案されている（特開平８－２５６１７４号）。この従来のシステムでは、組版処理された新聞情報を、電子伝送および閲覧に適したフォーマットの電子新聞情報に変換し、通信衛星、放送衛星、地上波放送、またはＣＡＴＶなどを介してユーザに配信する。ユーザにおいて、受信した電子新聞情報を、まず低倍率で表示面に表示する。希望する記事があれば高倍率で表示させる。入力機器によって、頁替え、スクロール、ズーム、または切り抜きなどの操作を行うことにより、あたかも紙新聞を見読するのと同様な感覚で電子新聞を見読できる。

【０００４】

【発明が解決しようとする課題】上に述べた従来の電子新聞情報システムでは、組版処理された新聞情報が電気信号であることに着目し、その信号を電子新聞情報に変換した上で、種々の伝送媒体を利用して各ユーザに伝送するものである。

【０００５】しかし、それによると、ユーザは紙新聞に近い使い勝手で新聞情報を見読することができるものの、各ユーザは、受信した全ての新聞情報から、必要な情報または読みたい情報を選択する必要がある。

【０００６】表示装置の表示面の面積は限られているため、表示方法をどのように工夫した場合であっても、通常、紙新聞を拡げた場合と比べるとその一覧性は劣る。そのため、表示面上において、新聞紙面に類似する新聞情報の中から必要な情報を選択することは容易ではない。

【０００７】また、ユーザは、全ての新聞情報を得ることができ、その中から時間をかけることによって必要な情報を選択することができるが、必要でない情報も受信することとなるので、伝送されるデータ量およびユーザの端末装置において記憶されるデータ量が不必要に多くなるという問題もある。

【０００８】本発明は、上述の問題に鑑みてなされたもので、ユーザが必要な情報のみを受信することができ、ユーザにおいて受信した情報を見読することが容易であり、またデータの伝送量および記憶容量を軽減することのできる電子情報配信システムおよび記録媒体を提供することを目的とする。

【０００９】

【課題を解決するための手段】請求項１の発明に係るシステムは、取得される電子情報を蓄える情報データベースと、各ユーザについて、電子情報の中から必要な情報を選択するための選択情報を格納する選択情報格納手段と、前記情報データベースに蓄えられた情報の中から、前記選択情報を用いて各ユーザについての必要な情報を検索して編集する編集手段と、編集された情報を各ユーザ毎に格納するユーザ編集情報格納手段と、前記ユーザ編集情報格納手段に格納された情報をネットワークを介して各ユーザに送信する送信手段とを有して構成される。

【００１０】必要に応じて、情報データベースに蓄えられる電子情報にキーワードを付与する手段が設けられ、且つ、前記選択情報としてユーザが選択したキーワードが含まれる。編集手段は、前記選択情報に含まれるキーワードに基づいて、前記情報データベースに蓄えられた情報の中から必要な情報を検索して編集する。

【００１１】電子情報配信システムを電子新聞に適用した場合には、電子情報として新聞情報が用いられる。その場合に、編集手段は、新聞情報を紙面情報毎に編集するように構成される。キーワードに基づいて検索を行った場合に、検索された新聞情報を、各紙面情報とは別のクリッピング情報として編集する。また、新聞社から発行される速報情報を蓄える速報データベースが設けられ、新聞情報については、当日の朝夕の２回に予め定められた時間帯にユーザに送信し、新たに発行された速報情報については、すぐにユーザに送信する。

【００１２】ユーザ端末は、新聞情報ホストシステムから受信した新聞情報を格納する記憶装置と、記憶装置に格納された新聞情報を表示する表示装置とを有する。ユーザ端末の表示装置には、新聞情報が各紙面毎に表示され、速報情報を新たに受信した場合には、その旨が表示装置に表示される。

【００１３】本発明に係る電子情報配信システムは、例えば、パーソナルコンピュータ、ワークステーション、汎用コンピュータ、モバイル機器、その他の種々のコンピュータまたは装置を用いて実現される。本発明に係る

電子情報配信システムを実現するためのプログラムは、半導体メモリ、ハードディスク、CD-ROM、フロッピー（登録商標）ディスク、又は光磁気ディスクなどの記録媒体に格納される。記録媒体に格納されたプログラムは、主メモリ上に適時ローディングされ、処理装置によって実行される。その際に、CD-ROMドライブ、フロッピーディスクドライブ、又は光磁気ディスクドライブなどのドライブ装置が必要に応じて用いられる。記録媒体がネットワークなどの通信回線で結ばれたサーバに設けられている場合には、通信回線を介してサーバからプログラムが読み取られ又はダウンロードされる。プログラムは、種々のOS、プラットホーム、システム環境、又はネットワーク環境の下で動作するように供給可能である。

【0014】

【発明の実施の形態】以下において、電子情報配信システムを電子新聞システムに適用した例を説明する。

【0015】図1は本発明に係る電子新聞システム1の構成を示すブロック図である。図1において、電子新聞システム1は、新聞情報ホストシステム3、新聞社システム4a，4b，4c…，広告社システム5、ユーザ端末6a，6b，6c…，および、それらを接続するネットワークNW1，NW2などからなる。

【0016】新聞社システム4a，4b，4c…およびユーザ端末6a，6b，6c…について、それぞれその全体または一部を指して「新聞社システム4」または「ユーザ端末6」と記載することがある。他についても同様である。また、広告社システム5も複数設けられることがある。新聞情報ホストシステム3も複数の箇所に分散して設けられてもよい。

【0017】新聞情報ホストシステム3は、例えば電子新聞社として設立された建物内に設置される。新聞情報ホストシステム3は、スケジューラ31、データ取得処理部32、データ配信処理部33、新聞データ記憶部34、速報データ記憶部35、広告データ記憶部36、個人契約データ記憶部37、個人新聞データ記憶部38、当日編集処理部41、過去編集処理部42、およびキーワード生成部43などからなる。

【0018】新聞データ記憶部34には新聞データベースDB34が、速報データ記憶部35には速報データベースDB35が、広告データ記憶部36には広告データベースDB36が、個人契約データ記憶部37には個人契約データベースDB37が、個人新聞データ記憶部38には個人新聞データベースDB38が、それぞれ設けられる。

【0019】データ取得処理部32は、新聞社システム4および広告社システム5との間で通信を行い、必要な新聞情報SBS、速報情報SHS、および広告データKUKを取得する。その際に、スケジューラ31からのタイミング指示にしたがい、各新聞社システム4に順次データ要求を送信し、各新聞社システム4から新聞情報SBSを受信する。しかし、スケジューラ31からのタイミング指示によることなく、新聞社システム4において新聞情報SBSの送信準備が整ったときに、新聞社システム4から送信するようにしてもよい。

【0020】速報情報SHSは、新聞社システム4において速報情報SHSが生じたときに、新聞情報SBSから送信される。しかし、例えば、新聞情報ホストシステム3から新聞社システム4に対して所定の周期で問い合わせを行い、新しい速報情報SHSがある場合にそれを送信するようにしてもよい。

【0021】データ配信処理部33は、新聞情報ホストシステム3とユーザ端末6との間で通信を行い、各ユーザ端末6に対して個人新聞情報KSBを送信する。その際に、例えばスケジューラ31からのタイミング指示にしたがい、ユーザ端末6に対して起動信号を送信する。ユーザ端末6は、受信のためのアプリケーションなどを立ち上げ、受信のための準備を行う。ユーザ端末6の受信準備が完了すると、新聞情報ホストシステム3からユーザ端末6に送信通知を出し、ユーザ端末6から受信可能信号が返ってくると、個人新聞情報KSBを送信する。個人新聞情報KSBの送信が行えなかったユーザ端末6に対しては、その後にユーザ端末6から新聞情報ホストシステム3に対してダウンロード要求を行い、これに対応して新聞情報ホストシステム3から個人新聞情報KSBを送信する。

【0022】また、常に各ユーザ端末6から新聞情報ホストシステム3に対してダウンロード要求を行ってから個人新聞情報KSBを送信するようにしてもよい。ユーザが外からモバイル機器などを用いて個人新聞情報KSBを得る場合には、モバイル機器からダウンロード要求を行い、且つパスワードなどを入力するようにすればよい。

【0023】モバイル機器にて個人新聞情報KSBを受信する場合は、モバイル機器で表示可能なサイズに情報を分割してダウンロードするようにしてもよいし、見出し情報のみが先にダウンロードされてユーザが選択した見出しに対応する記事情報がその都度ダウンロードされるようにしてもよい。

【0024】また、データ配信処理部33は、ユーザ端末6から新聞情報ホストシステム3に送信される個人契約データD371～3、その他のデータまたは指令などを受信し、必要な処理のために記憶しまたは変換することが可能である。

【0025】各新聞社システム4には、新聞社データベースDB41A，B，C…が設けられ、それぞれ、A新聞社、B新聞社、C新聞社…などが作成した新聞情報SBSa，SBSb，SBSc…が格納される。

【0026】広告社システム5には、広告を提供する企業または個人の多数の広告データKUKを記憶した広告

社データベースＤＢ５１が備えられる。ユーザ端末６には、処理装置６１、表示装置６２、および記憶装置６３などが備えられる。記憶装置６３には、新聞ファイルＤＢ６１および速報ファイルＤＢ６２などが格納される。

【００２７】ユーザ端末６は、例えば、パーソナルコンピュータ、専用端末装置、または兼用の端末装置などを用いることができる。また、携帯電話機を始めとする種々のモバイル機器を用いることも可能である。

【００２８】ネットワークＮＷ１として、例えば、専用回線または公衆回線などが用いられる。ネットワークＮＷ２として、公衆回線、専用回線、ＣＡＴＶ網、またはインターネットなどが用いられる。いずれの場合も、ワイヤまたは光ファイバなどによる有線回線、または、電波または赤外線などを利用した無線回線を、その一部または全部に用いることも可能である。

【００２９】図２は新聞社データベースＤＢ４１を示す図、図３は新聞データベースＤＢ３４を示す図、図４は速報データベースＤＢ３５を示す図、図５乃至図７はそれぞれ個人契約データベースＤＢ３７に格納されるデータＤ３７１～３の内容の一部を示す図、図８は個人新聞データベースＤＢ３８を示す図、図９は表示装置６２の表示面に表示される新聞画面ＨＧ１の例を示す図、図１０はユーザ端末６に速報情報が送信されたときに表示される速報ウインドウＨＧ２の例を示す図。図１１は表示装置６２の表示面に表示される新聞講読申込み画面ＨＧ３の例を示す図である。

【００３０】図２に示すように、新聞社データベースＤＢ４１に格納される新聞情報ＳＢＳは、第１面ＳＭＮ１、社会面ＳＭＮ２、経済面ＳＭＮ３などのように、各紙面ＳＭＮ毎にまとめられている。紙面（または欄）ＳＭＮとして、他に、政治面、総合面、国際面、スポーツ面、番組面、社説面、読者の声面などがある。

【００３１】各紙面ＳＭＮには、記事１、記事２、記事３…というように、各記事ＫＪＤについて、大見出し、中見出し、小見出し、本文、および写真またはイラストのような画像がまとめられている。また、これに音声などが加わる場合もある。

【００３２】なお、１つの記事ＫＪＤ、１つの紙面ＳＭＮ、または１つの新聞情報ＳＢＳが、１つのデータベースまたはファイルなどに格納されている場合もあるが、必ずしも物理的に１つの記憶媒体に格納される必要はない。例えば、画像について、そのリンク先のアドレスのみが同じファイルに格納され、画像のコンテンツはそのアドレスで指定される他の記憶媒体上に存在してもよい。他についても同様である。

【００３３】新聞情報ＳＢＳは、新聞が発行される日の朝刊および夕刊に合わせて作成される。新聞社データベースＤＢ４１格納された新聞情報ＳＢＳは、朝夕の予め定められた時間帯に新聞情報ホストシステム３に伝送される。

【００３４】なお、図示は省略したが、各新聞社において、速報を発行したときは、それをデータ化した速報情報ＳＨＳが新聞社データベースＤＢ４１に格納され、その後直ぐに新聞情報ホストシステム３に伝送される。

【００３５】図３において、各新聞社の新聞データベースＤＢ３４には、各新聞社の新聞情報ＳＢＫが格納されている。新聞情報ＳＢＫは、新聞社から送られる新聞情報ＳＢＳ、およびその各記事ＫＪＤについてのキーワードＫＷからなる。

【００３６】新聞情報ＳＢＳは、各新聞社システム４から伝送されるものと同じである。キーワードＫＷは、各記事ＫＪＤの内容に対応して、キーワード生成部４３によって生成される。

【００３７】キーワードＫＷの生成方法として、種々の方法を用いることが可能である。例えば、記事ＫＪＤの本文または見出しに用いられている単語の中からキーワードＫＷを選択すればよい。また、予め登録されたキーワードＫＷの中から選択してもよい。

【００３８】図４において、速報データベースＤＢ３５には、各新聞社から送られた速報情報ＳＨＳがそのまま格納される。格納された速報情報ＳＨＳは、個人契約データ記憶部３７に記憶された契約内容に沿って、契約したユーザに直ぐに伝送される。

【００３９】図５において、個人契約データＤ３７１は、会員番号ＫＩＢ、契約者コードＫＹＣ、パスワードＰＷＤ、各新聞についての新聞契約コードＳＫＣ、クリッピング契約コードＣＫＣ、配信上限設定ＨＪＳ、および速報受付要否ＳＵＹなどからなる。

【００４０】会員番号ＫＩＢは、電子新聞システム１による新聞講読を含めた所定のサービスを受けることのできる会員にユニークに付与される番号である。契約者コードＫＹＣは、電子新聞システム１による新聞講読を申し込んだ会員にユニークに付与されるコードである。パスワードＰＷＤは、契約者コードＫＹＣを付与された会員に対し必要に応じて与えられる。

【００４１】Ａ新聞契約コードおよびＢ新聞契約コードＳＫＣなどは、それぞれ、Ａ新聞、Ｂ新聞などの講読を申し込んだことを示すコードである。クリッピング契約コードＣＫＣは、キーワードＫＷにより検索される記事の配信サービスを申し込んだことを示すコードである。各新聞の講読またはキーワードＫＷによる記事の配信を申し込んでいる場合に、例えばそれらの各新聞を示すコードが「１」とされ、または契約された新聞の名前またはクリッピング契約であることを示す情報が登録される。

【００４２】配信上限設定ＨＪＳは、新聞情報ＳＢＫなどがユーザ端末６に伝送される際に、そのデータ量の上限値を設定するためのものである。設定された上限値を越えるデータは伝送されない。速報受付要否ＳＵＹは、速報情報ＳＨＳの講読を申し込んだことを示すコードで

ある。

【００４３】図６において、個人契約データＤ３７２は、図５に示す個人契約データＤ３７１において、設定された新聞契約コードＳＫＣについて、その詳細な内容を設定するものである。個人契約データＤ３７２は、契約者コードＫＹＣ、新聞契約コードＳＫＣ、および紙面契約コードＴＳＭなどからなる。

【００４４】紙面契約コードＴＳＭは、当該新聞社の新聞情報ＳＢＫに対して、どの紙面を希望するかを示す情報である。つまり、ユーザは、新聞情報ＳＢＫについて、その全部ではなく、第１面、社会面、経済面などのように、紙面を指定して契約することができる。ユーザは、希望する紙面を指定する。指定された紙面は、紙面契約コードＴＳＭとして登録される。

【００４５】図７において、個人契約データＤ３７３は、図５に示す個人契約データＤ３７１において、クリッピング契約コードＣＫＣが設定された場合に、その詳細な内容を設定するものである。個人契約データＤ３７３は、契約者コードＫＹＣ、クリッピング契約コードＣＫＣ、およびキーワードＴＫＷなどからなる。

【００４６】キーワードＴＫＷとして、ユーザの希望する複数の単語を、それらを適用する論理とともに登録することができる。図７の例では、単語として「新製品」「電気」「家電」「株価」が選ばれ、「新製品」および（「電気」または「家電」）、または「株価」という論理で、各記事ＫＪＤの見出しおよび本文を検索し、ヒットした記事ＫＪＤを抽出するように設定されている。

【００４７】図８において、個人新聞データベースＤＢ３８に格納された個人新聞情報ＫＳＢは、個人契約データＤ３７１～３に沿って、当日編集処理部４１により新聞データベースＤＢ３４の中から検索され抽出された新聞情報を、ユーザ毎に編集したものである。

【００４８】個人新聞情報ＫＳＢは、毎日朝夕に編集が行われる毎に、新しい個人新聞情報ＫＳＢが書き込まれ、古い個人新聞情報ＫＳＢは消去される。つまり、各個人新聞データベースＤＢ３８には、１回分の個人新聞情報ＫＳＢのみが書き込まれる。したがって、各個人新聞データベースＤＢ３８の容量が低減される。

【００４９】すなわち、個人新聞情報ＫＳＢは、各ユーザについて、契約した紙面ＳＭＮおよびクリッピング面ＣＫＮについて、それぞれ契約した新聞社についての記事ＫＪＤを含む。

【００５０】各紙面ＳＭＮには、関連する記事毎に、契約した新聞社の記事ＫＪＤが配置されている。つまり、１つの紙面ＳＭＮに含まれた記事ＫＪＤについて、見出しなどを解析し比較することによって、それらの記事ＫＪＤの関連性が検出され、各新聞に掲載された関連のある記事がまとめて配置される。

【００５１】図８の例では、Ａ新聞社の記事１とＢ新聞社の記事１とが関連あるとされ、それらが順次配置されている。また、記事２についても、Ａ新聞社の記事２とＢ新聞社の記事２とが関連あるとされ、それらが順次配置されている。

【００５２】クリッピング面ＣＫＮにおいても、紙面ＳＭＮと同様に、各記事毎に契約した新聞社の記事ＫＪＤが配置される。また、各紙面ＳＭＮおよびクリッピング面ＣＫＮにおいて、それぞれ紙面毎に異なる広告データＫＵＫが配置される。広告データＫＵＫをユーザの個人新聞情報ＫＳＢに配置することにより、電子新聞社は広告社から広告掲載料を徴収する。

【００５３】図９に示す新聞画面ＨＧ１は、ユーザ端末６に格納された新聞ファイルＤＢ６１および速報ファイルＤＢ６２に基づいて表示される。すなわち、新聞ファイルＤＢ６１には、新聞情報ホストシステム３から当該ユーザ端末６に送信された個人新聞情報ＫＳＢが格納される。速報ファイルＤＢ６２には、速報情報ＳＨＳの講読を申し込んでいた場合に新聞情報ホストシステム３から送信される速報情報ＳＨＳが格納される。これら個人新聞情報ＫＳＢおよび速報情報ＳＨＳが、新聞画面ＨＧ１として表示される。

【００５４】図９において、新聞画面ＨＧ１は、各紙面ＳＭＮにタグが付けて表示され、各タグをクリックすることによってそれぞれの紙面ＳＭＮの記事ＫＪＤが表示される。各記事ＫＪＤは、大見出し、中見出し、小見出し、本文の順に表示面に配置される。記事ＫＪＤは、図８に示す個人新聞情報ＫＳＢの順に配置されて表示される。

【００５５】画像については、そこに表示される画像マークをクリックすることにより表示される。しかし、画像の縮小版を表示しておいてもよい。各紙面ＳＭＮにおいて、画面をスクロールすることにより、必要な全ての記事ＫＪＤを表示させることができる。新聞情報ＳＢＳに音声が含まれている場合には、その音声が図示しないスピーカから発せられる。

【００５６】また、広告データＫＵＫに基づいて、新聞画面ＨＧ１内の所定の位置に、広告ＫＵＫ１を表示する。広告ＫＵＫ１は、紙面ＳＭＮ毎に異なる。画面をスクロールした場合でも移動しない。

【００５７】任意の紙面ＳＭＮを表示しているときに、速報情報ＳＨＳが入った場合には、その画面の中央に図１０に示す速報ウインドウＨＧ２が表示される。これによって、ユーザは、速報情報ＳＨＳが入ったことを容易に知ることができる。速報ウインドウＨＧ２のＯＫボタンをクリックすると、速報面が表示され、そこに速報情報ＳＨＳが表示される。

【００５８】なお、速報ウインドウＨＧ２は、他の任意の画面が表示されているとき、およびユーザ端末６を起動したときも、速報情報ＳＨＳが入った場合には表示される。また、速報情報ＳＨＳを見たい場合には、図９において速報のタグをクリックすればよい。

【００５９】このように、ユーザは、新聞情報ＳＢＳおよび速報情報ＳＨＳをユーザ端末６の表示面上で見読することができる。しかも、表示される新聞情報ＳＢＳは、ユーザ自身が選択した紙面ＳＭＮ、新聞社、またはキーワードＫＷについてのものであるから、不要な情報が省かれ、ユーザに必要な情報のみが表示される。

【００６０】したがって、従来のように必要な情報を選択する必要がなく、ユーザは短時間で必要な情報を知ることができる。また、新聞情報ホストシステム３から送信される個人新聞情報ＫＳＢのデータ量が低減され、データの伝送量およびユーザ端末６における新聞ファイルＤＢ６１のデータ容量が低減される。

【００６１】ユーザは、ユーザ端末６を設置していない場所からであっても、携帯電話機またはモバイル機器などを用いて個人新聞情報ＫＳＢを見読することが可能である。その際に、モバイル機器には見出しのみを表示させ、その画面上でユーザが指定した見出しについて、それに対応する本文を指定する番号のファクシミリに送信させることが可能である。

【００６２】図１１に示すように、表示装置６２の表示面には、新聞講読申込み画面ＨＧ３を表示させ、その画面上から個人契約データＤ３７１～３を入力することが可能である。

【００６３】図１１において、新聞講読申込み画面ＨＧ３では、会員番号ＫＩＢおよび氏名ＮＭＥの欄が表示されるので、ユーザはそれぞれ入力を行う。新聞社および紙面の欄において、それぞれユーザの希望する新聞および紙面ＳＭＮをそれぞれ順に入力し、追加ボタンＢＴ１１をクリックする。これによって、その入力内容が、契約状況の欄に反映される。契約状況の欄から不要の新聞または紙面を削除する場合には、それを新聞社および紙面の欄に入力し、削除ボタンＢＴ１２をクリックする。契約状況の欄に表示された内容が、講読を希望する新聞および紙面を示し、新聞契約コードＳＫＣおよび紙面契約コードＴＳＭとして登録される。

【００６４】クリッピング契約を行うときは、キーワードＫＷの欄に希望するキーワードを入力し、追加ボタンＢＴ１３をクリックする。また、必要な論理記号を入力する。これによって、その入力内容が、契約状況の欄に反映される。契約状況の欄に表示された内容が、キーワードＴＫＷとして登録される。

【００６５】速報の講読を希望する場合には、速報講読の欄に「希望する」を入力する。自宅以外で個人新聞情報ＫＳＢの受信を希望する場合には、自宅以外での受信有無の欄に「有」を入力する。その場合に、パスワードの欄に適当なパスワードを入力して設定する。

【００６６】なお、契約者コードＫＹＣは、新聞講読を申し込んだ後で、新聞情報ホストシステム３から当該ユーザに対して付与される。また、図示は省略したが、新聞講読の契約は、日単位で行うことができ、解約または変更も日単位で行うことができる。朝刊のみまたは夕刊のみの契約も行うことができる。契約条件によって、テキストのみ、つまり画像を不要とする契約も可能である。時刻指定契約を行うことが可能であり、その場合には、新聞情報ホストシステム３は指定された時刻に個人新聞情報ＫＳＢを作成し、当該ユーザのユーザ端末６に送信する。

【００６７】このように、ユーザは、ユーザ端末６に表示される新聞講読申込み画面ＨＧ３から、新聞講読の申し込み、および契約内容の変更などを容易に行うことができる。

【００６８】しかし、このような新聞講読申込み画面ＨＧ３に代えて、各新聞社の名前、および各新聞社についての紙面名を一覧的に表示し、希望する新聞社および紙面に対してチェックを入れるようにしてもよい。

【００６９】なお、新聞講読の申し込みおよび変更は、ユーザ端末６の表示面からのみでなく、紙面に記入して郵便またはファクシミリなどで送ることによっても行うことができる。

【００７０】また、ユーザは、ユーザ端末６を操作し、各新聞社に対する読者の声の欄（面）、特ダネ写真、記事などを入力し、それを新聞情報ホストシステム３に送信することができる。それらを受信した新聞情報ホストシステム３は、必要に応じて各新聞社に振り分けて送信する。これによって、新聞社は、ユーザからの投稿を受け付けることができ、また、ユーザのクレームまたは要望などを集計することができる。

【００７１】ユーザは、過去の新聞情報ＳＢＫを要求することができる。その場合には、ユーザ端末６から必要な事項を入力し、新聞情報ホストシステム３に送信する。新聞情報ホストシステム３は、送信された内容に基づいて、過去編集処理部４２が新聞データベースＤＢ３４の中から新聞情報ＳＢＫを検索し、必要な情報を抽出して当該ユーザ端末６に送信する。

【００７２】なお、ユーザの新聞講読にともなう費用は、契約内容に応じて、ユーザの所定の口座から適時引き落とされる。オンライン引き落としを行うことも可能である。

【００７３】図１２は本発明に係る電子新聞システム１を実現するためのプログラムの記録媒体ＳＴの形態を示す図である。そのようなプログラムは、新聞情報ホストシステム３、新聞社システム４、またはユーザ端末６のいずれか１つに、またはそれらの２つ以上に、インストールされる。図１２はインストール先の処理装置ＰＳを示す。

【００７４】図１２に示すように、処理装置ＰＳに設けられた主メモリ、ＲＡＭ、ＲＯＭ、若しくはハードディスクなどの記憶装置ＳＴＡ、ＣＤ－ＲＯＭ、フロッピーディスク、若しくは光磁気ディスクなどの可撤媒体ＳＴＢ、ネットワーク若しくは通信回線ＳＴＤで結ばれたサ

ーバ若しくはＤＡＳＤなどの回線先媒体ＳＴＣが、記録媒体ＳＴとして利用可能である。

【００７５】記録媒体ＳＴが可搬媒体ＳＴＢである場合には、プログラムは可搬媒体ＳＴＢの種類に対応するドライブ装置によって読み出され、処理装置ＰＳの記憶装置ＳＴＡに格納され又は主メモリ上にローディングされ、実行される。記録媒体ＳＴが回線先媒体ＳＴＣである場合には、プログラムは通信回線ＳＴＤを介して記憶装置ＳＴＡにダウンロードされ、又は適時転送されて実行される。プログラムは、種々のＯＳ、プラットホーム、システム環境、又はネットワーク環境の下で動作するように供給可能である。

【００７６】上に述べた実施形態において、新聞情報ホストシステム３とユーザ端末６または新聞社システム４との間の通信のために、種々の通信プロトコルを用いることが可能である。新聞情報ホストシステム３、新聞社システム４、広告社システム５、およびユーザ端末６として、パーソナルコンピュータ、ワークステーション、汎用コンピュータ、その他の種々のコンピュータまたは装置を用いることができる。電子新聞システム１の全体または各部の構成、個数、データベースまたはデータの内容または配置順序、処理の内容、順序、またはタイミング、および画面ＨＧの内容などは、本発明の趣旨に沿って適宜変更することができる。

【００７７】本発明は、新聞情報の配信のみでなく、他の種々の情報の配信に適用することができる。

【００７８】

【発明の効果】本発明によると、ユーザが必要な情報のみを受信することができ、ユーザにおいて受信した情報を見読することが容易である。また、データの伝送量および記憶容量を軽減することができる。

【００７９】請求項２および５の発明によると、ユーザの希望する新聞情報をより正確に抽出することができる。

【図面の簡単な説明】

【図１】本発明に係る電子新聞システムの構成を示すブロック図である。

【図２】新聞社データベースを示す図である。

【図３】新聞データベースを示す図である。

【図４】速報データベースを示す図である。

【図５】個人契約データベースに格納されるデータの内容の一部を示す図である。

【図６】個人契約データベースに格納されるデータの内容の一部を示す図である。

【図７】個人契約データベースに格納されるデータの内容の一部を示す図である。

【図８】個人新聞データベースを示す図である。

【図９】表示装置の表示面に表示される新聞画面の例を示す図である。

【図１０】ユーザ端末に速報情報が送信されたときに表示される速報ウインドウの例を示す図である。

【図１１】表示装置の表示面に表示される新聞講読申込み画面の例を示す図である。

【図１２】本発明に係る電子情報配信システムを実現するためのプログラムの記録媒体の形態を示す図である。

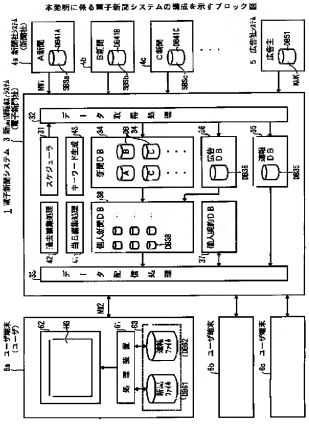
【符号の説明】

１　電子新聞システム（電子情報配信システム）
３　新聞情報ホストシステム
４　新聞社システム
６　ユーザ端末（ユーザ）
３３　データ配信処理部（送信手段）
４１　当日編集処理部（編集手段）
４３　キーワード生成部（キーワードを付与する手段）
６２　表示装置
６３　記憶装置
ＤＢ３４　新聞データベース（情報データベース）
ＤＢ３５　速報データベース
ＤＢ３７　個人契約データベース（選択情報格納手段）
ＤＢ３８　個人新聞データベース（ユーザ編集情報格納手段）
ＳＢＫ　新聞情報
ＳＨＳ　速報情報
ＳＫＣ　新聞契約コード（選択情報、新聞社情報）
ＴＳＭ　紙面契約コード（選択情報、紙面情報）
ＣＫＣ　クリッピング契約コード（選択情報）
ＴＫＷ　キーワード（選択情報）
ＳＭＮ　紙面（紙面情報）
ＣＫＮ　クリッピング面（クリッピング情報）
ＮＷ２　ネットワーク
ＳＴ　記録媒体

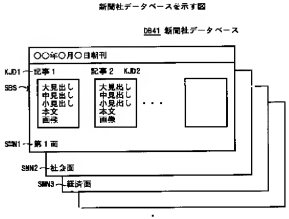
【図１０】

ユーザ端末に速報情報が送信されたときに表示される速報ウインドウの例を示す図

【図１】



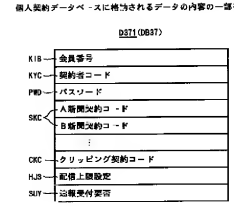
【図２】

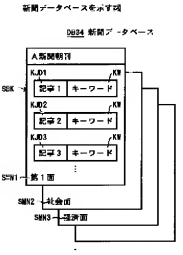


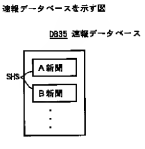
【図３】

【図４】

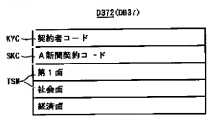
【図５】







【図６】



【図7】

個人契約データベースに格納されるデータの内容の一部を示す図

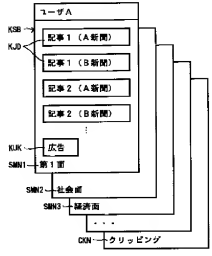
D373(DB37)

KYC	契約者コード
CKC	クリッピング契約コード
TKW	「新聞名」&（「電気」or「家電」）or「株価」

【図8】

個人新聞データベースを示す図

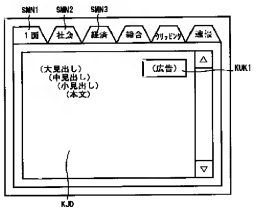
DB38 個人新聞データベース



【図9】

表示装置の表示面に表示される新聞画面の例を示す図

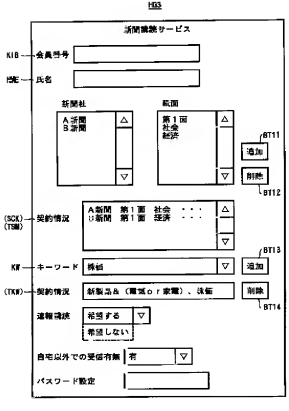
H61



【図11】

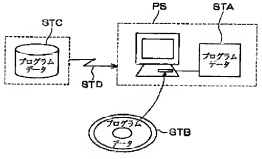
表示装置の表示面に表示される新聞購読申込み画面の例を示す図

H63



【図12】

本発明に係る電子情報配信システムを実現するためのプログラムの記録媒体の概略を示す図



フロントページの続き

(51)Int.Cl.⁷	識別記号	F I	(参考)
G06F 17/60	302	G06F 17/60	302E

(72)発明者 大坪 史郎
神奈川県川崎市中原区上小田中4丁目1番1号 富士通株式会社内

Fターム(参考) 5B049 AA06 BB25 EE05 FF01 GG02
5B075 ND20 NK02 PP03 PP13 PQ02
PQ05 UU32